

Professional and Managerial Branch
Miscellaneous Professional Group
Sciences Series

ASSOCIATE HYDROGEOLOGIST

05/98 (SAC)

Summary

Under direction, perform hydrogeologic analysis to provide present and future water requirements.

Typical Duties

Perform ground water investigations and studies. Involves: estimating the volume of water stored underground by measuring water levels in local wells; examining hydrogeologic records and pumping test data to determine the extent, depth and thickness of water-bearing sediments and rocks and production capacity of aquifer systems; preparing water table maps; collecting and entering the necessary data into a computer and running ground water models to predict the results under various operating strategies.

Provide technical assistance concerning construction and drilling of wells. Involves: estimating materials required for well construction; assisting in preparing specifications for bids; analyzing results of aquifer pumping tests to evaluate aquifer characteristics and well performance; interpreting well drilling and electric logs and determining sampling intervals; determining the most efficient pumping rate.

Perform miscellaneous related professional functions as required. Involves: updating long range plans for water resources management; substituting, if assigned, for immediate supervisor during temporary absences by performing delegated duties sufficient to maintain continuity of services and similarly substituting for coworkers; maintaining records and preparing reports.

Minimum Qualifications

Training and Experience: Graduation from an accredited college or university with a Bachelor's Degree in Groundwater Hydrology, Hydrogeology, Engineering Geology or a related field and two (2) years professional experience in ground water resources planning, investigation or water well construction; or an equivalent combination of training and experience.

Knowledge, Abilities and Skills: Good knowledge of: practices, methods and techniques of Geology and Groundwater Hydrology; the hydrology and geology of the El Paso area; groundwater modeling; well drilling practices and procedures.

Ability to: collect and interpret data relating to groundwater and aquifers; prepare cost estimate and specifications for well drilling and well plugging projects; prepare water table and related groundwater contour maps; establish and maintain effective working relationships with fellow employees and the general public; to maintain records and prepare reports.

Skill in the use and care of personal computers.

Physical Requirements: Mobility within a field environment; operate a motor vehicle through City traffic.

Licenses and Certificates: Texas "Class C" drivers license or equivalent license issued by another state.

Director of Personnel

Department Head